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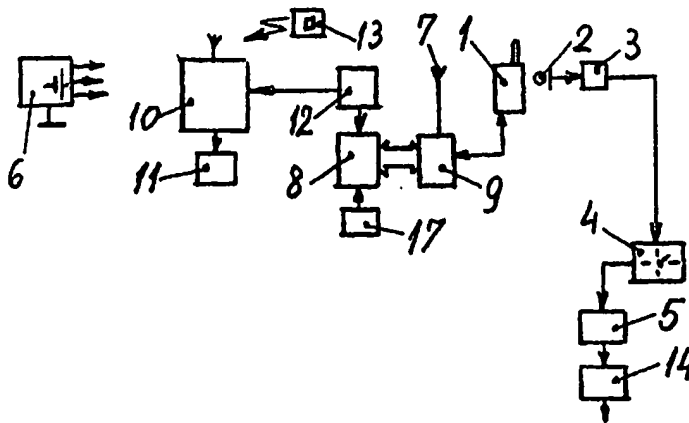
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(54) Title: METHOD FOR WATCHING PROPERTY-OBJECT



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(57) Abstract: Method for watching property-object by means of controlling the communication-range comprising the steps of activating a system monitoring periodically or continuously the parameters about identifying the state of a property-object watched along with a communication-range; in case of observing irregular signals, putting in operation the units of the sound-signal and of light-signal following those immediately or after the confirmation of those per said communication-range; and or independently of those, making disturbance in putting into operation of movable or immovable property object, guarded by a property-protection system; by said communication-range as well, sending informative notifications about the alarmed state of said property-protection system for one or more address; then initiating the guarding by sentinels of an immobile property-object or the capturing of a mobile one; examining the state of said communication-range by sampling-call from time to time; and in given case, observing the irregular state of said sampling-call, putting alarming-functions of said property-protection system into action; and in connection with said alarm function, or independently of, it hindering the putting into operation of the property-object, prolongedly.

## METHOD FOR WATCHING PROPERTY-OBJECT

## Background of the Invention

## 1. Field of the Invention

The present invention relates to a method for watching  
5 property-object by means of controlling the communication-  
range which is particularly adapted to guarding for movable  
or immovable property-object, consequently for vehicles,  
buildings, and country houses.

## 2. Prior art

10 There are numerous prior art solutions destined for watching  
property-objects by applying communicating-set, peculiarly  
cellular telephone set exploiting the favourable of those  
in communication of moving vehicles or because of another  
reason, e.g. want of standard telephone sets, remote from  
15 the mains of telephone-net, for watching immovable property-  
object.

One prior art method for watching is described in US Patent  
4,821,309. The essence of this invention that the alarm  
system of the vehicle send off alarm signals by its operative  
20 contact both to its environment including also the letting  
out of articulate sound for calling attention, and to the  
vehicle itself to effectuate a break down in it. Besides the  
operative contact results the notifying of the telephone  
sets stored in a memory by the telephone number of those.

25 Besides the advantages, unfortunately, the possibility to  
destroy the system with telephone, settled in the vehicle,  
exist on the attacker side whereby the protection afforded  
by the operative contact of the telephone comes to an end,  
too.

30 The Hungarian Patent 214 129 improves upon the sability of  
the contact being in communication. According to this meth-  
od, it is to be protected the alarming state beside the  
protection of the object. This state can be ceased by an  
erasing code selected individually which can be valided by  
35 direct or by remote controlling. Further the "armed state"

of the alarm system is also protected. Unfortunately, the question is not answered that what happens if there is a disturbance in the connection of the remote controlling, respectively in the communication-range. Something of the kind can come into being without wilful disturbance if the electromagnetic field is insufficient on the place of the vehicle momentarily or longer. This situation can exist not only occasionally but also permanently in a deep garage or on other place where the attenuation of the electromagnetic field is larger which can be experienced sometimes if one is phoning during driving a vehicle. Moreover it is said, too, that the frequencies in use a cellular telephone attenuated in some restaurants in order that the customers are not to be bothered by the repeated ringing of cellular telephones. Unfortunately, the annulling of the communicating signals can be achieved by criminal purpose according to the mentioned, e.g. by an implement being in operation nearly to create disturbance in the communication of the property-object. So, because of stopping the communication, messages will not arrive in case off an assault against the property-object and there isn't possible the defence, neither, even if arrived those.

That is why, probably, the prospectus of "Alarm Communicator" with trade-mark in scriptum "Safety Phone" enhances that before the owner leaves the vehicle he can announce by the answer machine the exact address date of his parking place. Then the remote supervision receiving the alarm can later on hear the announcement and can immediately direct the police to the address determined by the announce. (The "answer machine" means the message centre here which can be called for "voice message" during a disturbance in the communication with the parking place). The describe of this mentioned patent expounds also that a cellular telephone can't be used ever and everywhere both for reason of technics and of safety.

Consequently, the prior art of technics don't contain final recommendation in case at the disturbance of the communication-range accordingly a safety system operated by wireless communication. Even if the co-ordinate of parking place have  
5 sent on the message centre in order that the organization being in charge of the supervision could hasten without delay to the locale, the scene of the aggression is not known immediately in the case if a disturbance originals in the communication range at the decisive time and the message  
10 don't arrive. Of course, an answer looking like legal can be replied that the defence-system only is responsible for own operation and not for the one of the communication-range. But that don't give compensation or a real remedy to the owner; it is evident, that the insurance company won't as-  
15 sume the responsibility for the compensation of the offence which was committed against a property of large value. Surely, e.g. neither meteorologist responsible for the various damages which are caused by thunderstrokes, possible. Further, it is known that the maximum load can call forth  
20 troubles of the supply on all fields.

Of course, the possibility is given for the owner to control the defence-system by calling occasionally, indeed, it is possible to make automatic these, but one can run into considerable expenses making calls reassuringly frequent,  
25 isn't mentioned the waste of time, too. Besides, changing the place of the vehicle within a short time is possible nowadays, e.g. carrying the stealed car in a container from which the communication isn't possible and then the organization of the supervision can call the message centre for  
30 the co-ordinates of the vehicle in vain obtaining knowledge of the removal of the vehicle.

#### Brief Summary of the Invention

It is accordingly a principal object of the present invention to provide an improved property protection method by

watching property-object via controlling the communication-range of a communication-set buildet in the property object.

Another object of the invention to maintain a message-  
5 traffic inside the property-object controlling the communicating-set in case of a trouble of the communication-range and to frustrate the transport of a mobile-object by alarming or disastrous alarming, depend on the existing of said message-traffic.

10 There are more technical steps putting together consciously to realize the invention giving it a significant surplus effect.

The method for watching property-object accordingly the invention is based on controlling the existing of the communication-range by sampling-calls which can be achived by a  
15 communicating-set that is identical with one which is to be controlled. The existing of the communication-range can be verified by the engaged signals of the same communcating-set namely telephone set.

20 It has also been recognized that this telephone set can be connected up a wirely- respectively imitative-circuit parallel with its interface to a property-protection system to establish a controlling signal-traffic sending messages.

It has been recognized as well that if the communication-range is ready for working, in order to the property-object,  
25 it can be confirmed by said controlling signal-traffic.

It has been recognized further that if both the above mentioned alternatives of signal traffic show trouble that mean not only the unsufficiency of the communicating condition  
30 but also it prognostics the aggression against the communicating-set of the property-object.

It has been recognized that the letter state can be used to initiative disastrous alarming.

On the basis of the above mentioneds, the essence of the set aim is a method for watching a property-object by means of controlling the communication-range comprising the steps of activating a system monitoring periodically or continuously the parameters about identifying the state of a property-object watched along with a communication-range; in case of observing irregular signals, putting in operation the units of the sound-signal and of light-signal following those immediately or after the confirmation of those per said communication-range; and or independently of those, making disturbance in putting into operation of movable or immovable property object, guarded by a property-protection system; by said communication-range as well, sending informative notifications about the alarmed state of said property-protection system for one or more address; then initiating the guarding by sentinels of an immobile property-object or the capturing of a mobile one;

characterised by comprising the steps of:  
examining the state of said communication-range by sampling-call from time to time; and in given case, observing the irregular state of said sampling-call, putting alarming-functions of said property protection system into action; and in connection with said alarm function, or independently of, it hindering the putting into operation of the property-object, prolongedly.

A preferred effectuating of the invention comprising the step of sending off said sampling-calls from a communicating-set concealed in said property-object to the address of same said communicating set to undo now and again the time passed on from said period of time verifying the absence of said sampling-calls by its engaged signals of determined number.

Futher substantial and advantageous features of the invention are deailed in the other subclaims.

### Brief Description of the Drawings

The invention is described more detailed with reference to the accompanying drawings, but is not limited only to these.

5 Fig. 1 is a block scheme of the system for realizing the method for watching a property-object in accordance with the present invention.

Fig. 2 shows an alternative connected with Fig. 1 in block scheme.

### 10 Description of the Preferred Embodiments

The invention will now be described with reference to its application accomplishing the method for watching a property-object, but it can be adapted without restriction within the claimed scope of protection.

15 Fig. 1 presents only an advantageous example for watching a property-object by means of controlling the communication-range. It contains a communicating-set 1 which is linked up through an interface 9 having an antenna 7 and through a controller 8 with an alarm centre 10 containing a power  
20 supply 6, a remote controller 13 and signalling means 11. An assault sensor 12 is connected between the controller 8 and the alarm centre 10. A timer 17 is also connected to said controller 8. A sensor 2 is connected up to the communicating-set 1, acoustically. Said sensor 2 is linked up also  
25 with a clock 4 through a signal-transformer 3, galvanically. Said clock 4 linked up with a signal-transmitter, 5 then via it with an actuating-means 14.

The block-scheme accordingly Fig. 2 altered in comparison with Fig.1 shows as the signal-transformer 3 is connected to an OR-member 15 which is linked up with controller 9 by a wire, interruptable e.g. by the assault-sensor 12, associated  
30 with the band-cable of communicating-set 1. The OR-member 15 is linked up with a disastrous-actuator 141 through the clock 4 and a signalling-member 16. Otherwise the embodiment

accordingly Fig. 2 is identical with the embodiment of Fig. 1 and contains also its detail missing of Fig.2

In the following, the method will be reviewed by the two more essential embodiment of the invention attached to the schemes wrote about in what has gone before.

5 The communicating-set 1 is working accordingly a cellular-telephone. In a standstill, that is in pause of outside calls as have been reset by the timer, sampling calls will be initiated from the controller to its own number hereby engaged signals will arise. These engaged signals come into  
10 the sensor 2 then from there pass through the signal-trasformer onto the clock 4. The clock 4 will be put back by the sampling-calls to zero, that is to the beginning position. If engaged calls don't arrive to the clock within the period of time which has been reset on the clock 4 it make  
15 the actuating-means 14 operate wherby a normal alarm will be released with sound- light-signalling and with a prohibition starting the engine, etc.

Accordingly Fig. 2, the clock 4 will similarly be put back to zero by the signals of signal-transformer 3 effected by  
20 sampling-calls and/or sincronous effected by the signals of the controller 8 via a wirely imitator and the OR-member 15. If both of the signals were absent, so there are a signal sent out by the clock 4 out via the signalling-member 16 making the disastrous-means 141 operate at the expiration  
25 of the reset period of time, whereby a disastrous alarming will be released. Then namely, it is presumable that the trouble can originated not only from a habitual disturbing signal, for example from a signal of a electric-welding, but also from it that an illegal penetrater have found and torn  
30 off the communicating set 1 or the alarm centre 10 by the controller 8. In this case, there will be letted in a stuff, being not able to mingle homogenously with the gasoline (e.g. air, wather, etc.), into the fuel-system of the vehicle, and thence causes the hindering the operation of the ve-



hicle, prolongedly, by a fault which can't cleared quickly away.

Besides, it will be letted in ionisable gas into the inside of the immobile property-object to mend the conditions of the wireless communication. This have an importance if a  
5 vehicle, e.g., is shadowed, probably by putting in a container for transporting it.

Among the benefit of the invention can be mentioned the vorious protection of the alarm system against smashing, against detrimental manipulations of the communication,  
10 implying the transport of vehicle by transporter means, too. On other hand, the controlling of the communication-range is economical, but the sampling-calls don't have expenses why the receiver is not lifted up, only the engaged signals are utilized.

15 While there has been described above particular method of watching property-objects by shown related systems, it will be appreciated that the invention is not limited to the details that have been disclosed. Accordingly, any modifications, variations or equivalent arrangements, systems, or  
20 effectuatements of the attached claims, description, and drawings should be considered to be within the scope of the invention.

- 1 communicating-set
- 2 sensor
- 3 signal-transformer
- 5 4 clock
- 5 signal-transmitter
- 6 power supply
- 7 antenna
- 8 controller
- 10 9 interface
- 10 alarm centre
- 11 signalling means
- 12 assault-sensor
- 13 remote controller
- 15 14 actuating-means
- 141 disastrous-means
- 15 OR-member
- 16 signalling-member
- 17 timer

## CLAIMS

1. Method for watching property-object by means of controlling the communication-range comprising the steps of: activating a system monitoring periodically or continuously  
5 the parameters about identifying the state of a property-object watched along with a communication-range; in case of observing irregular signals, putting in operation the units of the sound-signal and of light-signal following those immediately or after the confirmation of those per  
10 said communication-range; and or independently of those, making disturbance in putting into operation of movable or immovable property-object, guarded by a property-protection system; by said communication-range as well, sending informative  
15 notifications about the alarmed state of said property-protection system for one or more address; then initiating the guarding by sentinels of an immobile property-object or the capturing of a mobile one; characterised by comprising the steps of:  
20 examining the state of said communication-range by sampling-call from time to time; and in given case, observing the irregular state of said sampling-call, putting alarming-functions of said property protection system into action;  
30 and in connection with said alarm function, or independently of, it hindering the putting into operation of the property-object, prolongedly.
2. The method set forth in claim 1 further comprising step of resetting the frequency of said sampling-call after considering the danger to said property object before  
35 leaving.
3. The method set forth in claim 1, or claim 2 comprising the step of following the resetting of said sampling-call

determining the period of sampling-call giving the delay of said putting in action the function of said property-system according to the grade of the alarmization.

4. The method set forth in claims 1 to 3 further comprising  
5 the step of sending off said sampling-calls from a communicating-set concealed in said property-object, to undo now and again the time passed on from said period of time verifying the absence of said sampling-calls by its engaged signals of determined number, to the address of same said  
10 communicating-set.

5. The method set forth in claims 1 to 3 further comprising the step of sending off said sampling-calls from a communicating-set being nearly, to undo the period signalling the absence of said sampling-calls from time to time by said  
15 ringing signs of determinated number, to the other said communicating-set concealed in said property-object.

6. The method set forth in claims 1 to 4 further comprising the step of substituting for said sampling-calls by messages passed on an interruptable wirely imitator, directly, in case  
20 of insufficient connection of communication, if the electromagnetic field being unsufficient for the wireless communication, then, in case of absence of said messages passed on the wirely imitator, too, achiving disastrous alarming.

7. The method set forth in claims 1 to 6 comprising the  
25 step of frustrating, in case of disastrous alarming, the operation of the mobil property-object with irregularly flowing of the fuel by letting into said fuel a stuff, e.g. air, being unable to mixing homogenous with said fuel, and simultaneously letting in ionisable gas into the inside of  
30 said immobile property-object for mending the conditions of the wireless communication.

8. The method for watching property-object according to any of the preceding Claims, wherein the features disclosed in the foregoing Claims and/or in description and/or in the accompanying drawings, both separately and in any combination thereof, are to be material for realizing the invention in diverse forms thereof.

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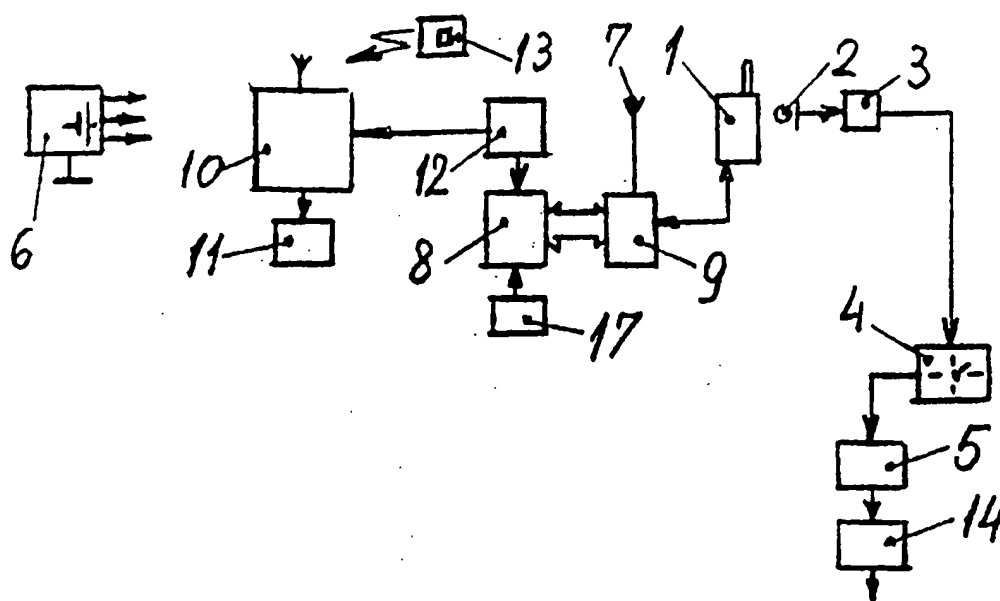


Fig. 1

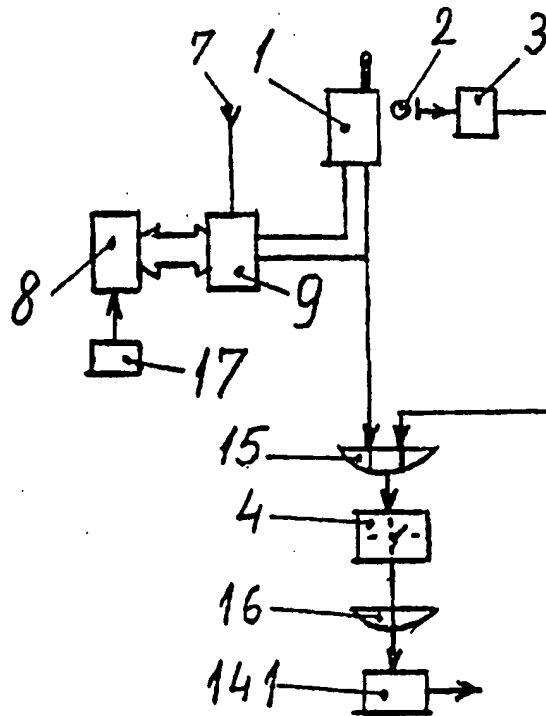


Fig. 2.